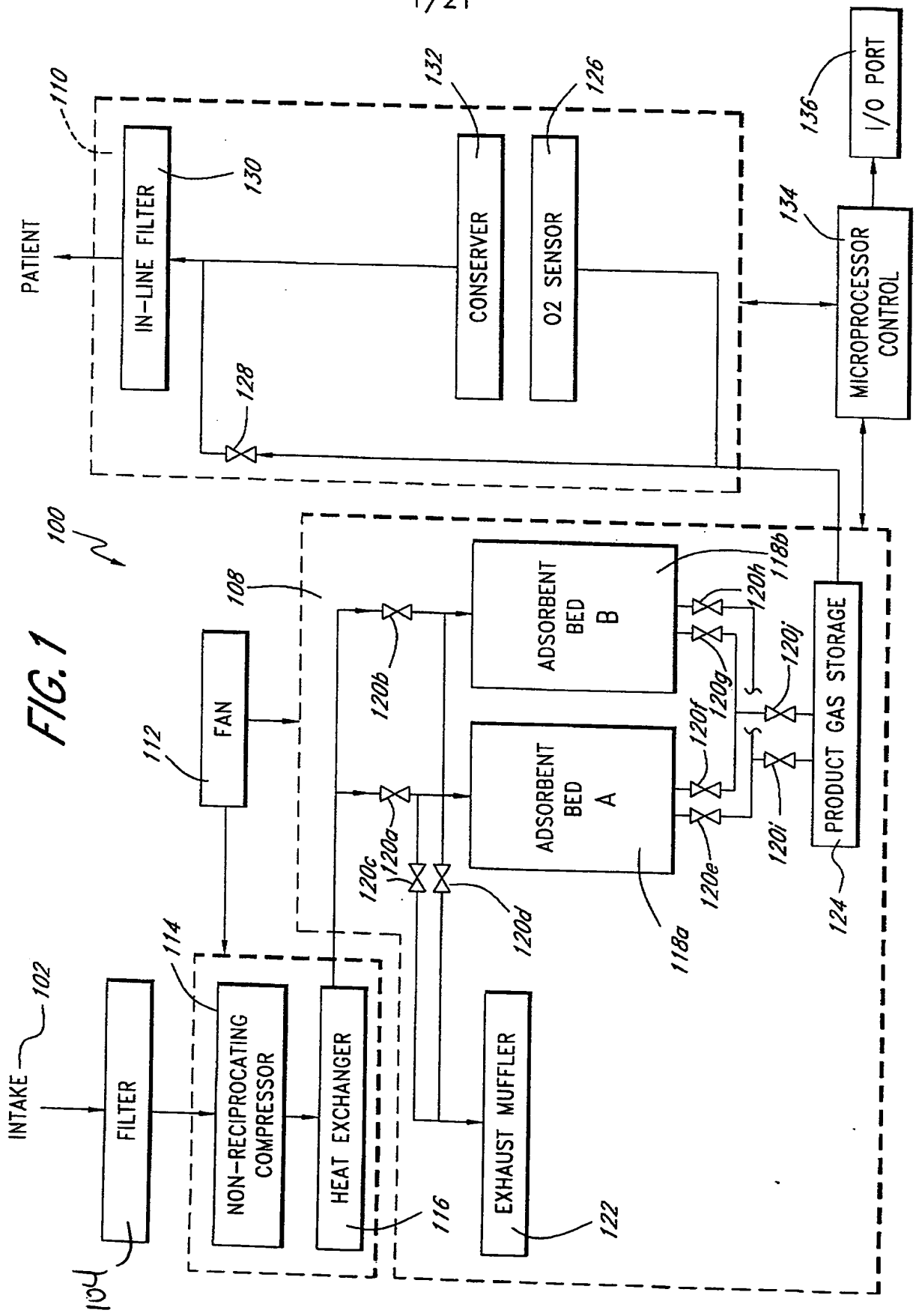
FIG. 1


100
110
PATIENT
IN-LINE FILTER
130
CONSERVER
132
O2 SENSOR
126
I/O PORT
136
MICROPROCESSOR CONTROL
134
128
108
FAN
112
ADSORBENT BED B
118b
ADSORBENT BED A
118a
120a
120b
120c
120d
120e
120f
120g
120h
120i
120j
PRODUCT GAS STORAGE
124
INTAKE
102
FILTER
104
NON-RECIPROCATING COMPRESSOR
114
HEAT EXCHANGER
116
EXHAUST MUFFLER
122

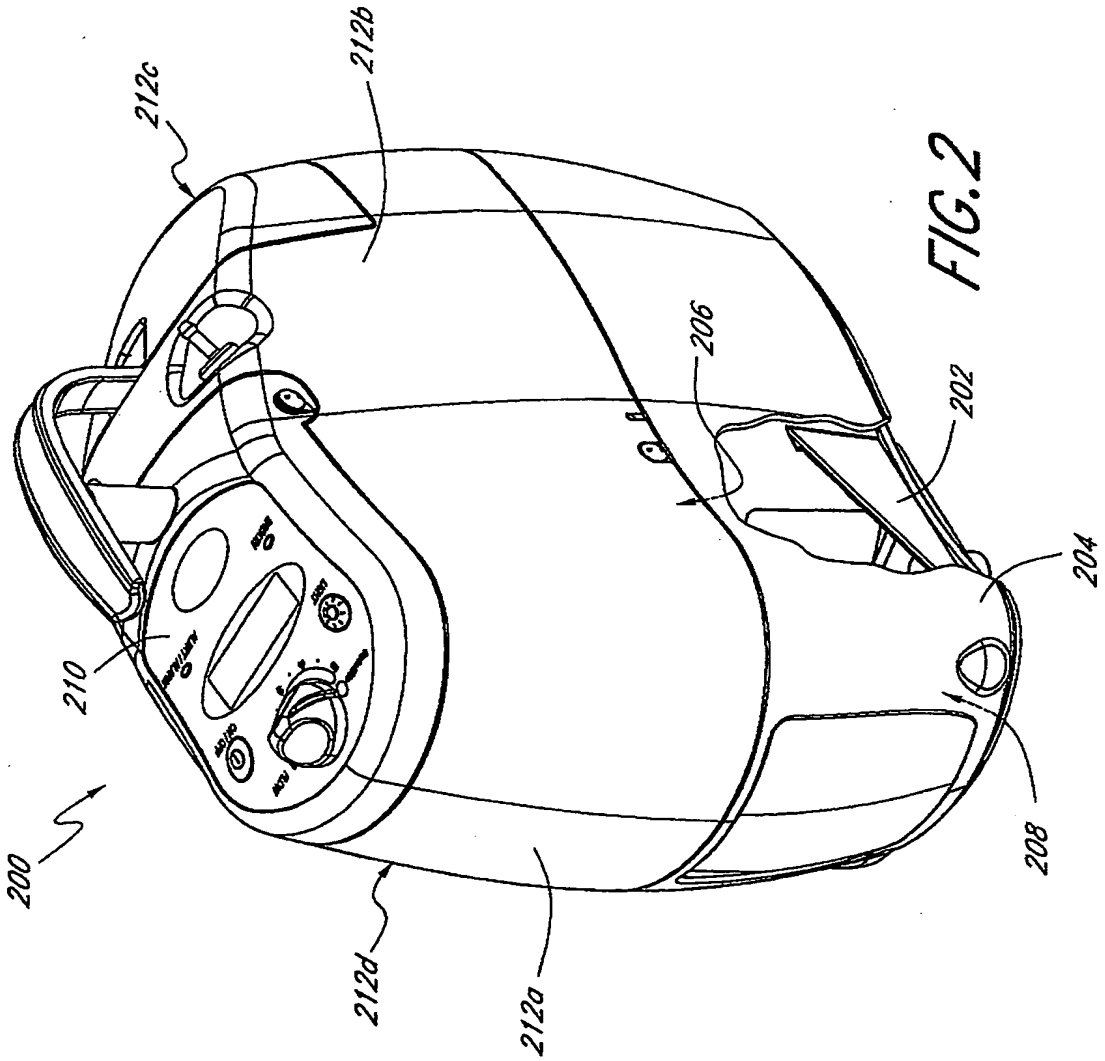


FIG.2

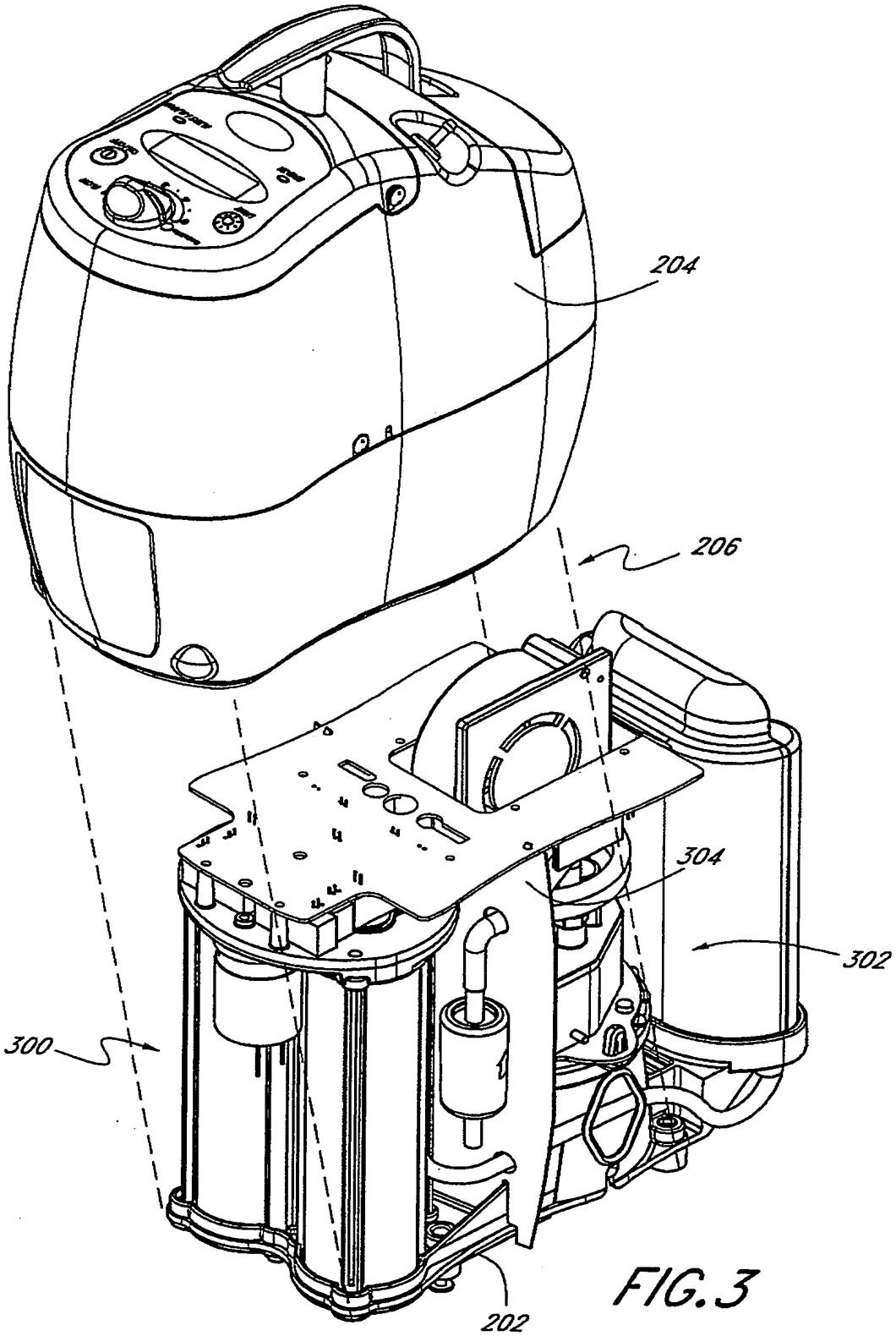


FIG. 3

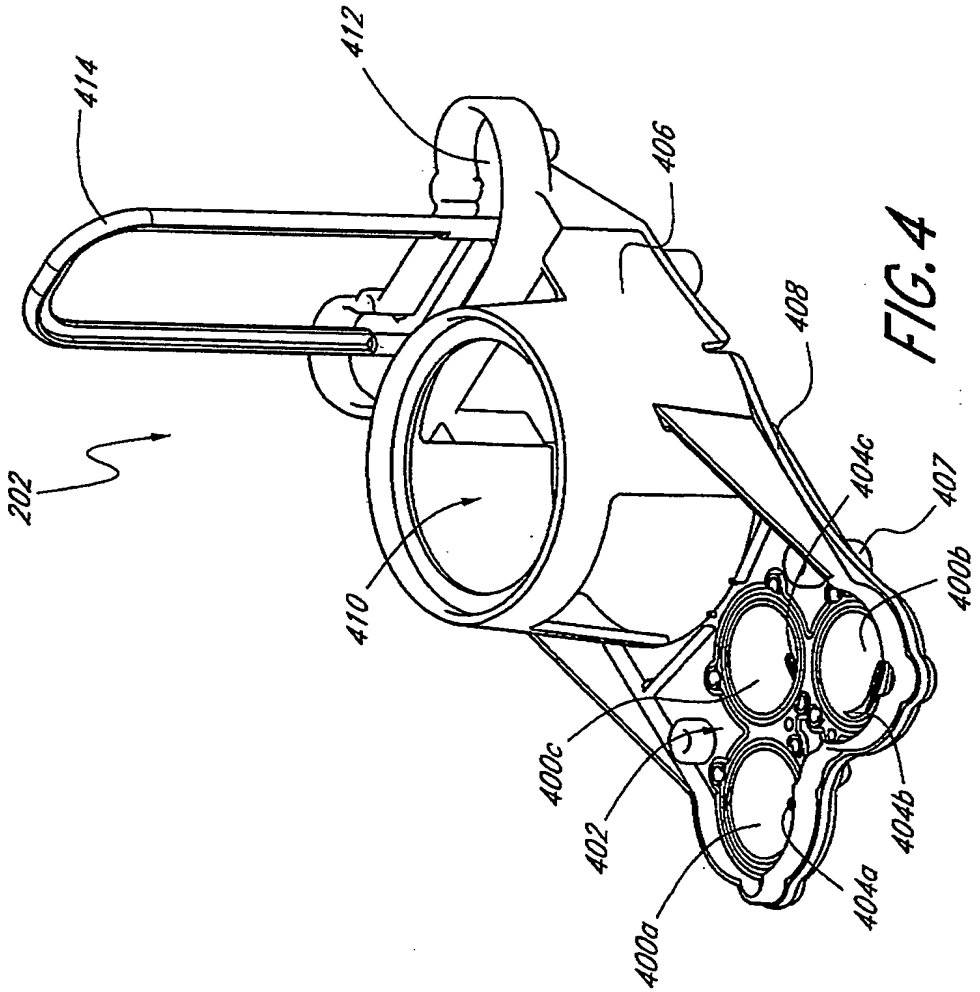


FIG. 4

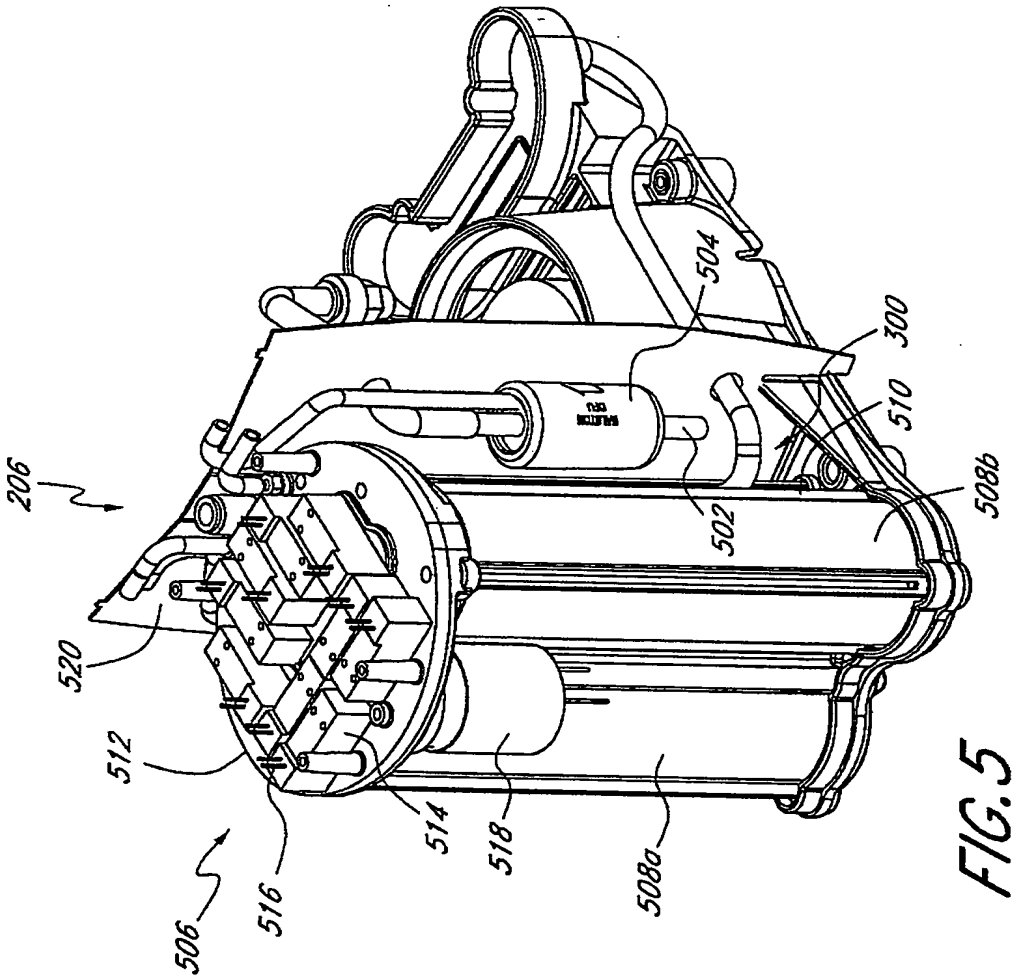


FIG.5

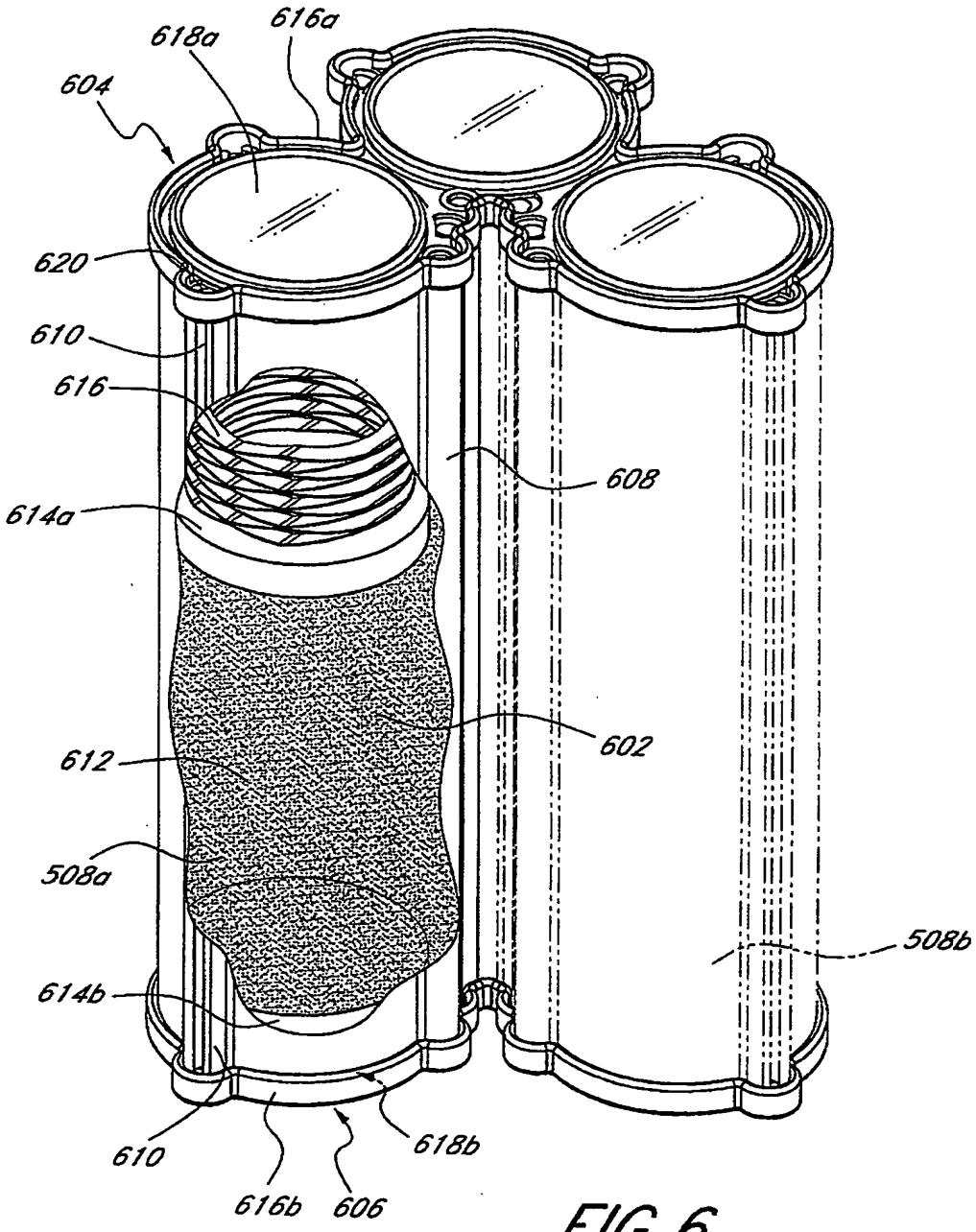

618a
616a
604
620
610
616
608
614a
602
612
508a
508b
614b
610
618b
616b
606

FIG. 6

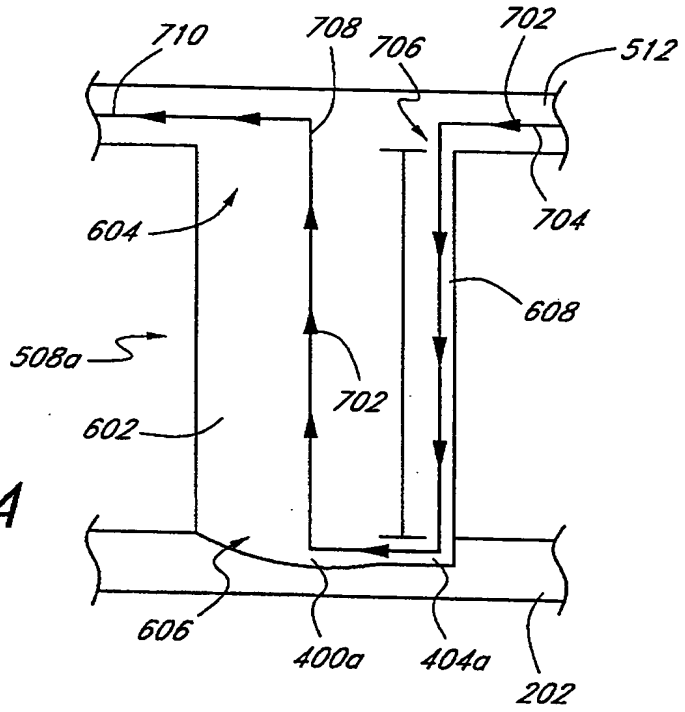

710
708
706
702
512
704
604
608
508a
702
602
606
400a
404a
202

FIG. 7A

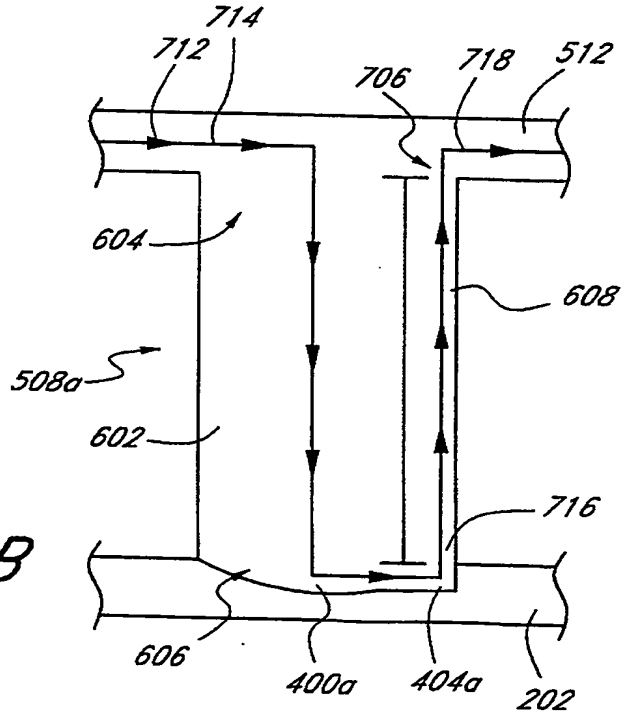

714
712
706
718
512
604
608
508a
602
716
606
400a
404a
202

FIG. 7B

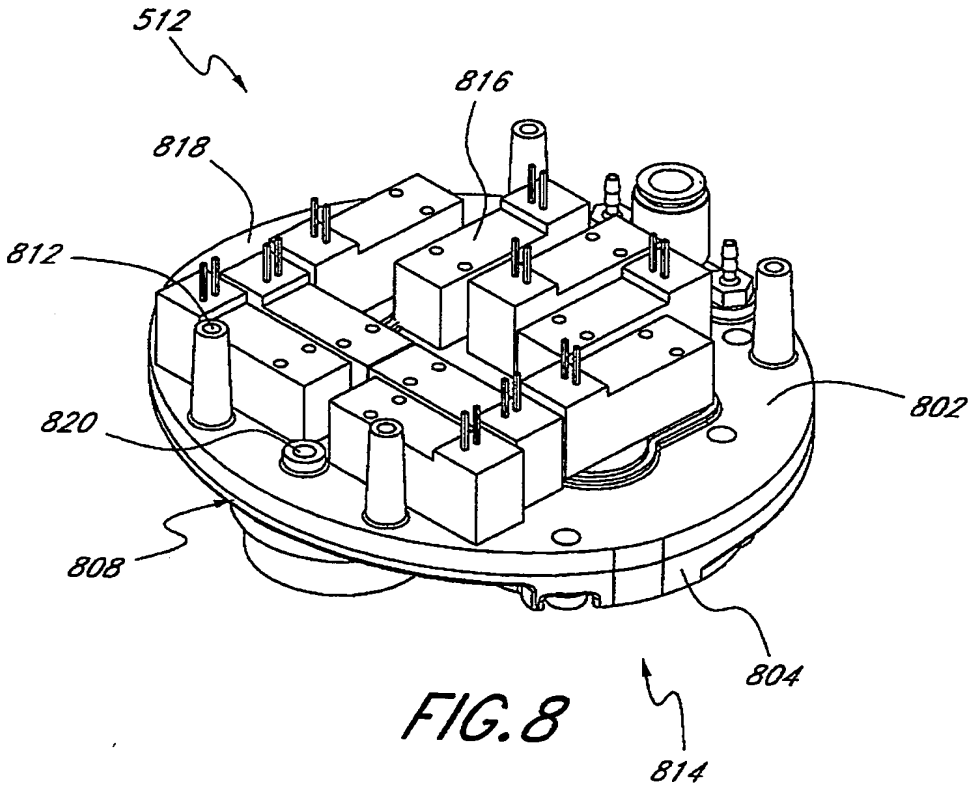


FIG. 8

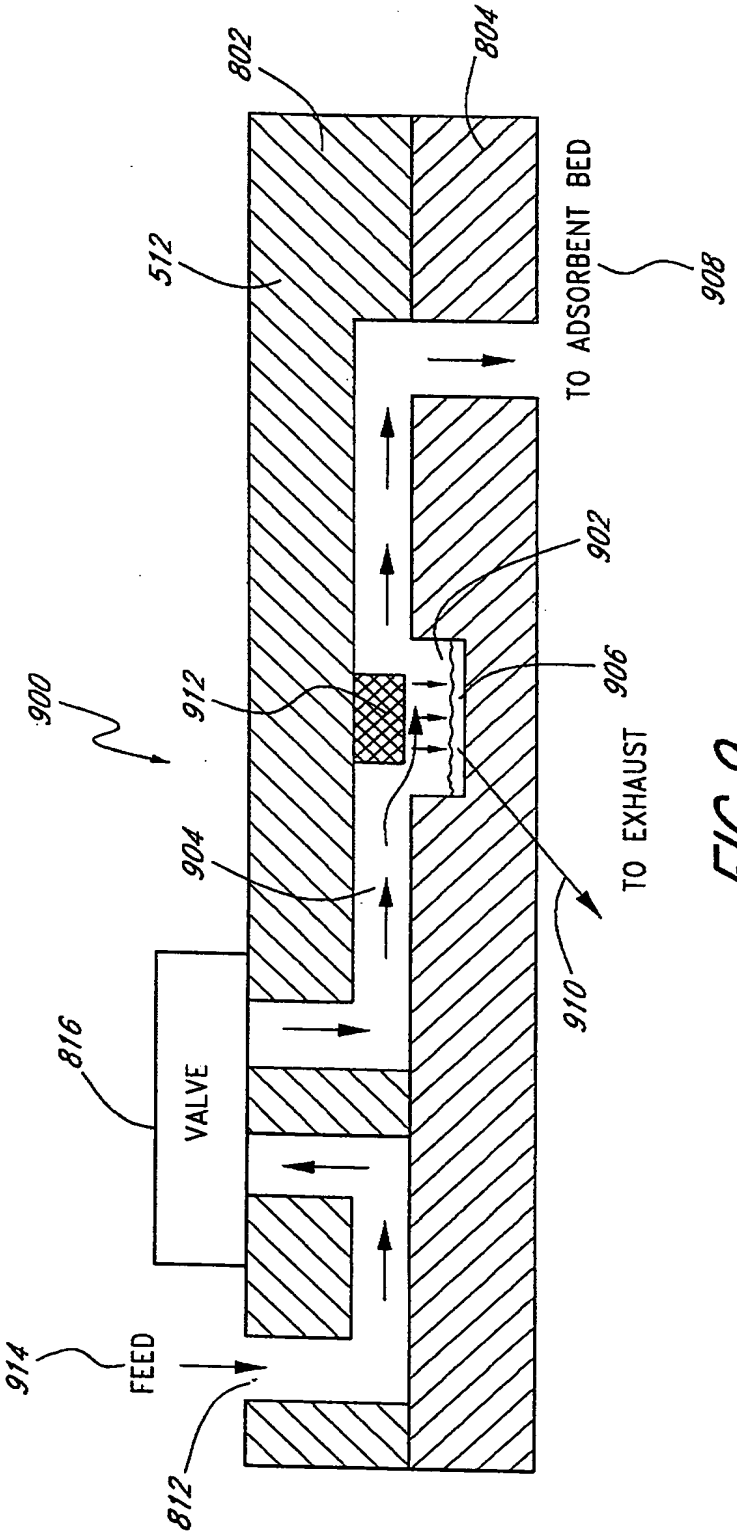

802
804
512
TO ADSORBENT BED
908
902
906
900
912
904
TO EXHAUST
910
816
VALVE
914
FEED
812

FIG. 9

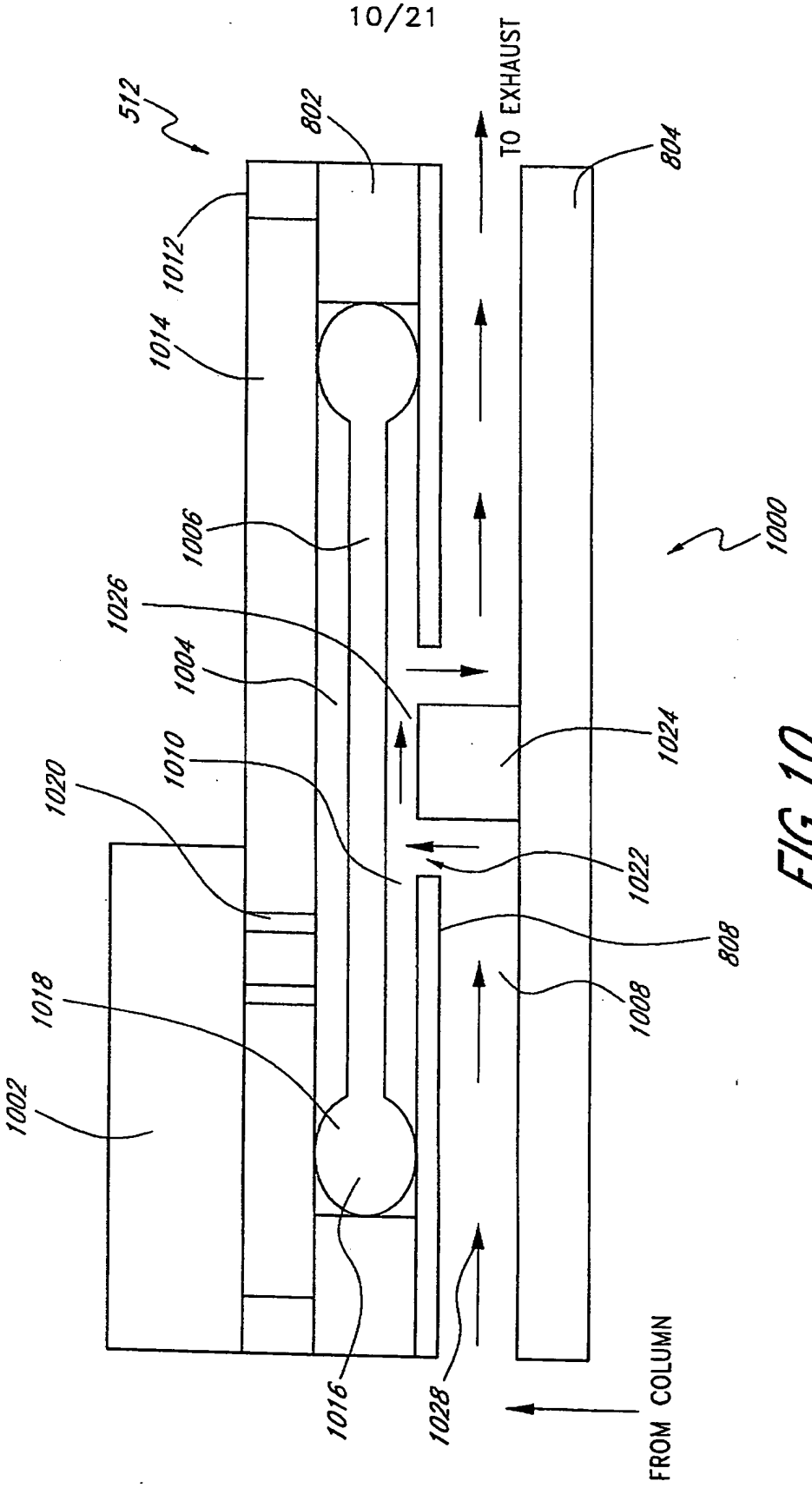

512
802
804
TO EXHAUST
1012
1014
1006
1000
1026
1004
1024
1010
1020
1022
808
1018
1008
1002
1016
1028
FROM COLUMN

FIG. 10

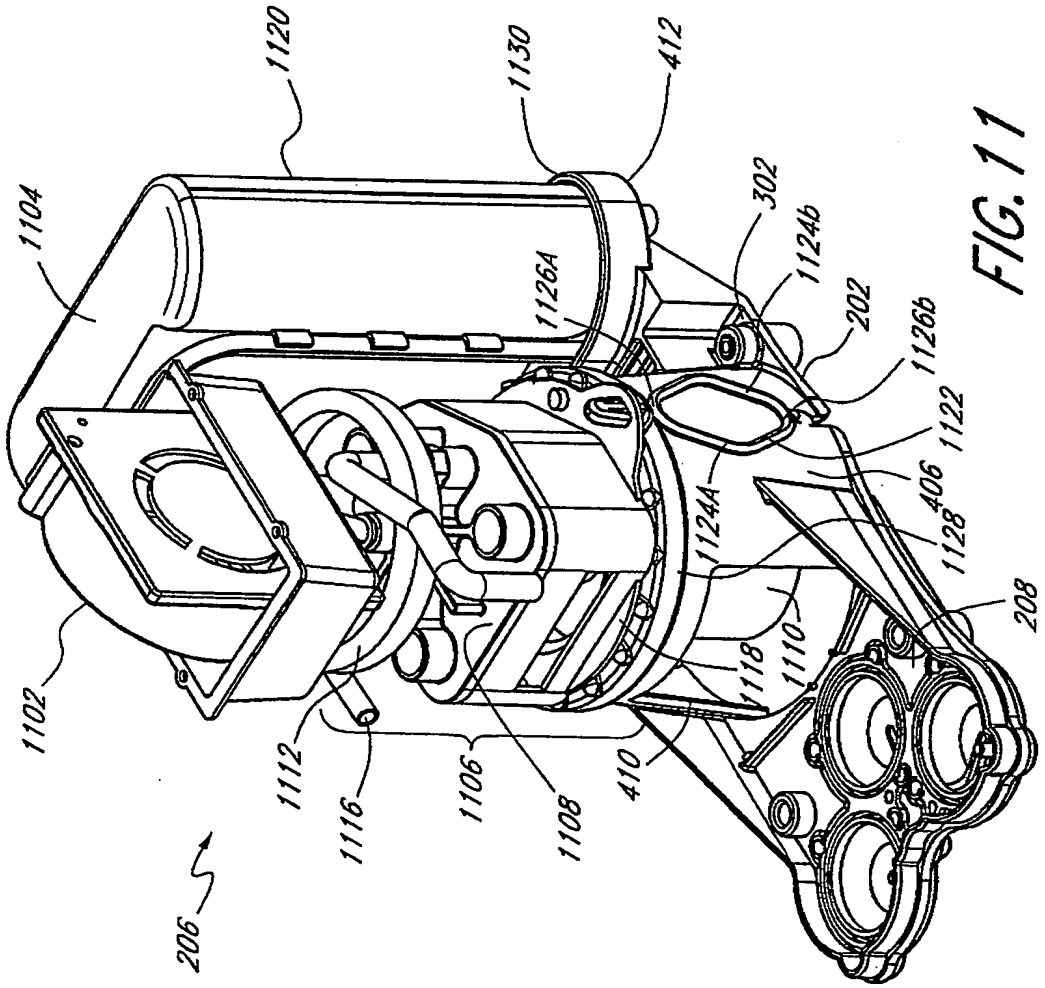

1120
1130
412
1104
302
1124b
1126A
202
1126b
1122
406
1124A
1128
208
1102
1118
1110
1112
1116
1106
1108
410
206

FIG. 11

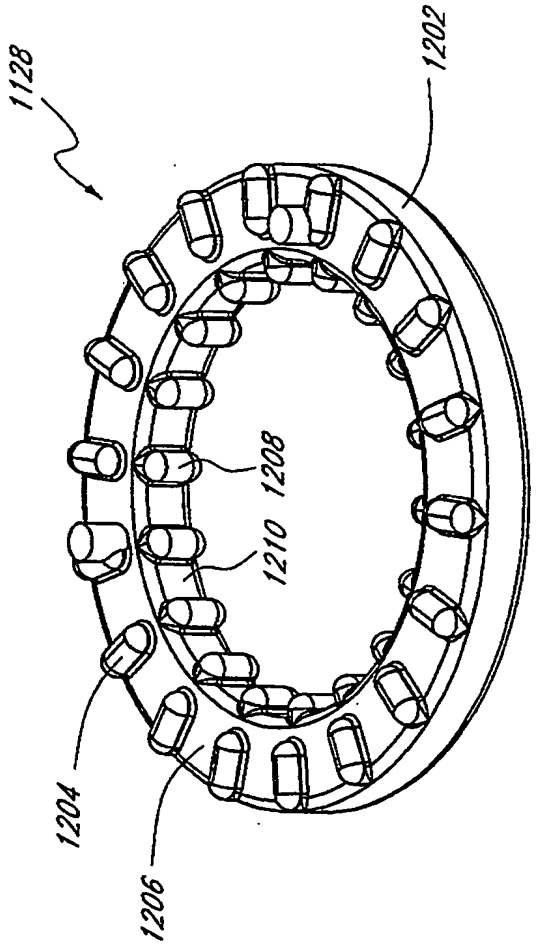


FIG. 12

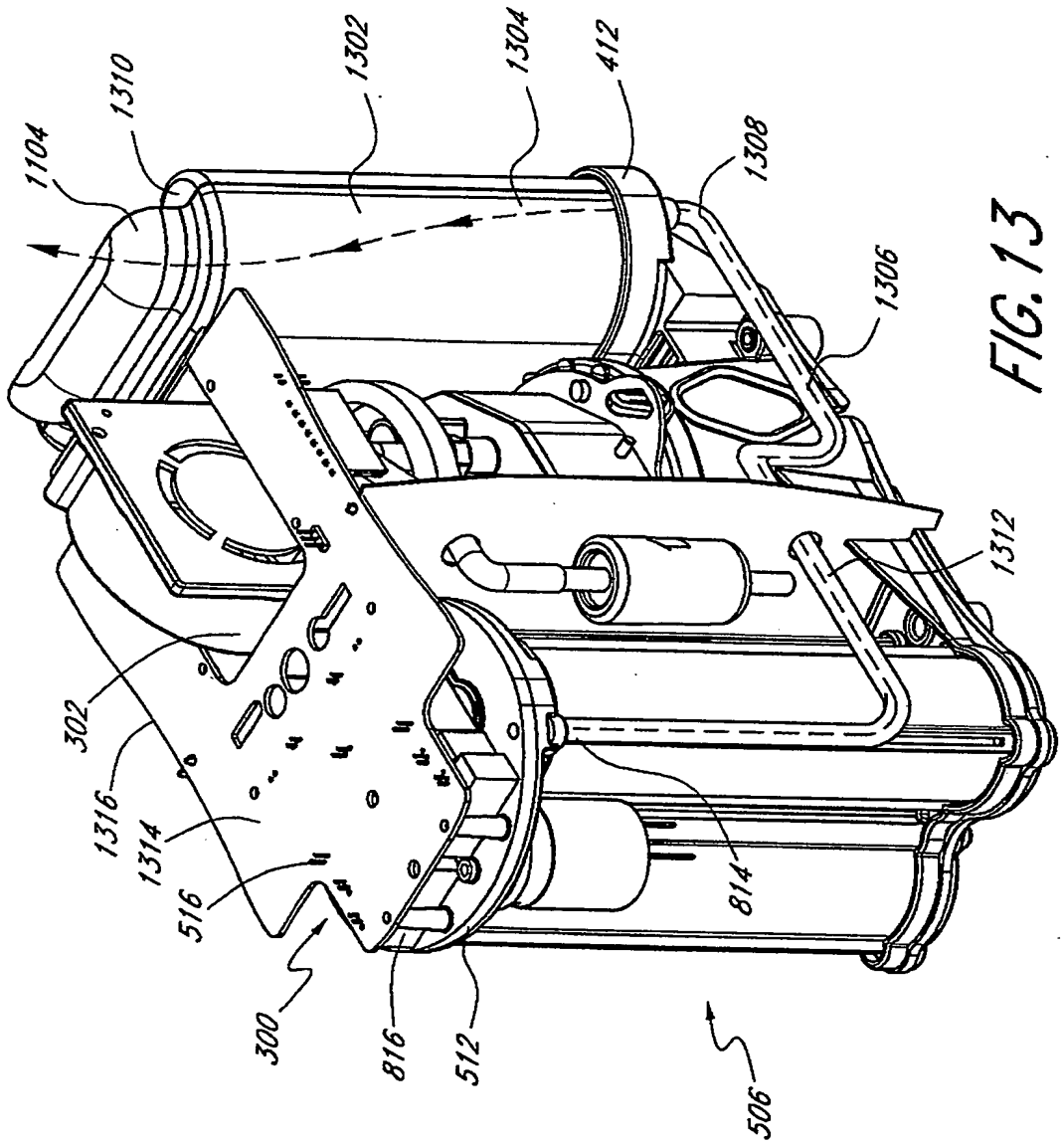

1104
1310
1302
1304
412
1308
1306
1312
302
1316
1314
516
300
816
512
814
506

FIG. 13

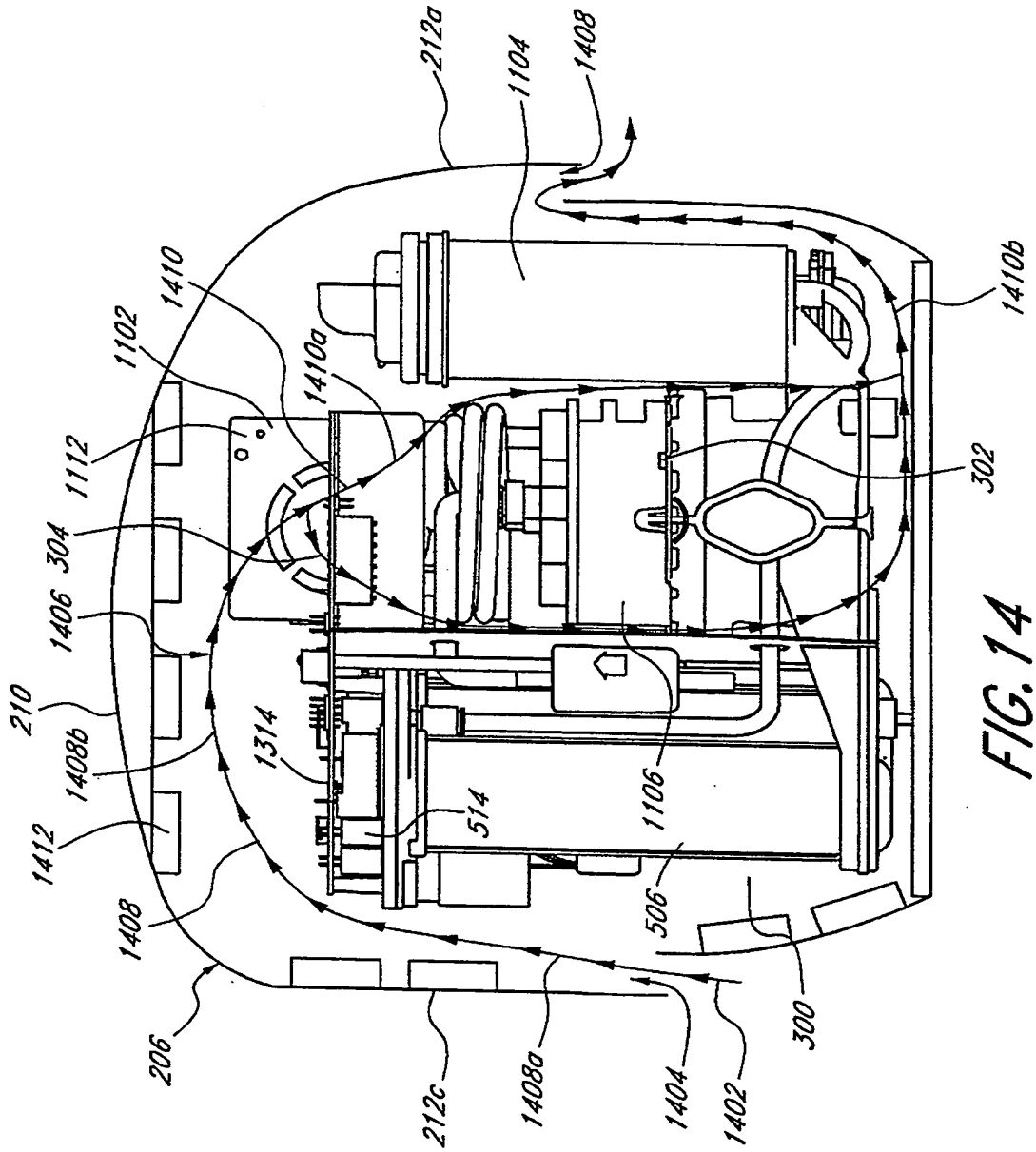

212a
1104
1408
1410
1102
1410a
1410b
1112
304
1406
210
1408b
1314
1412
514
1106
302
1408
506
206
300
212c
1408a
1404
1402

FIG. 14

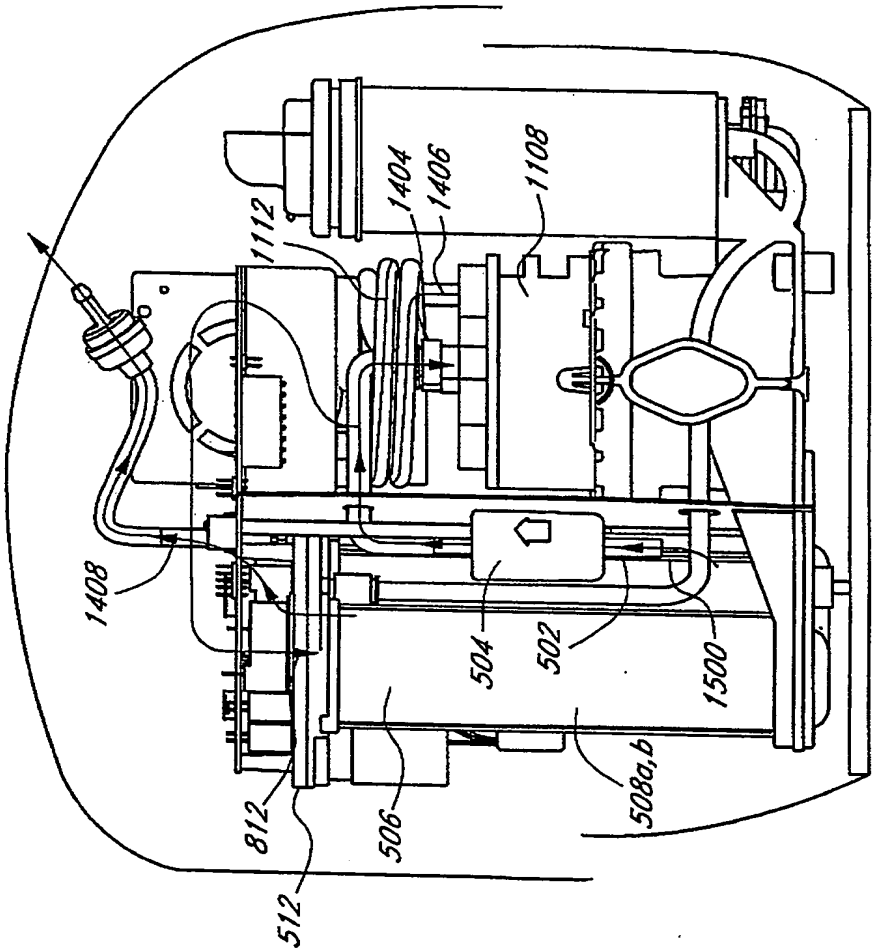


FIG. 15

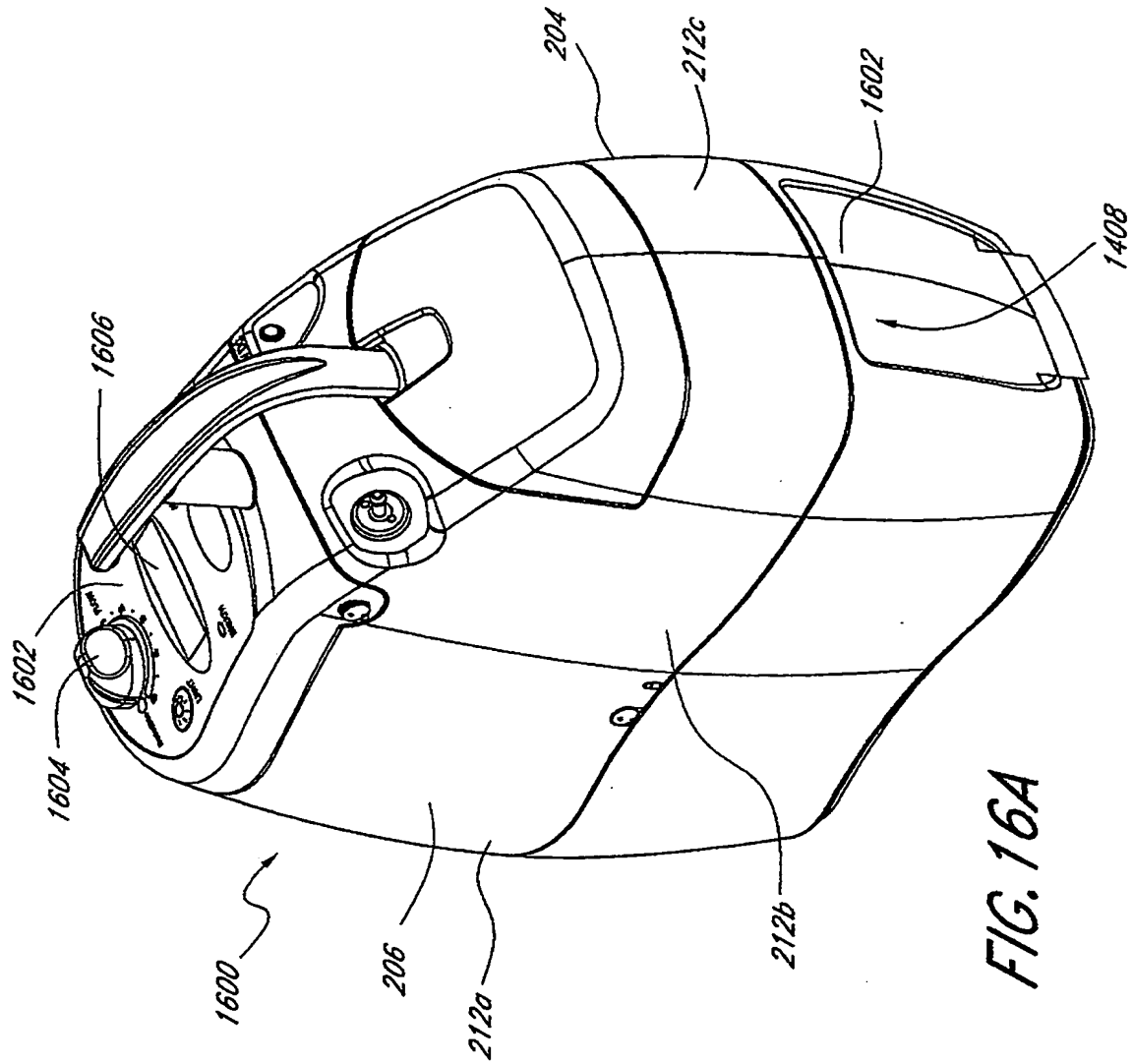


FIG. 16A

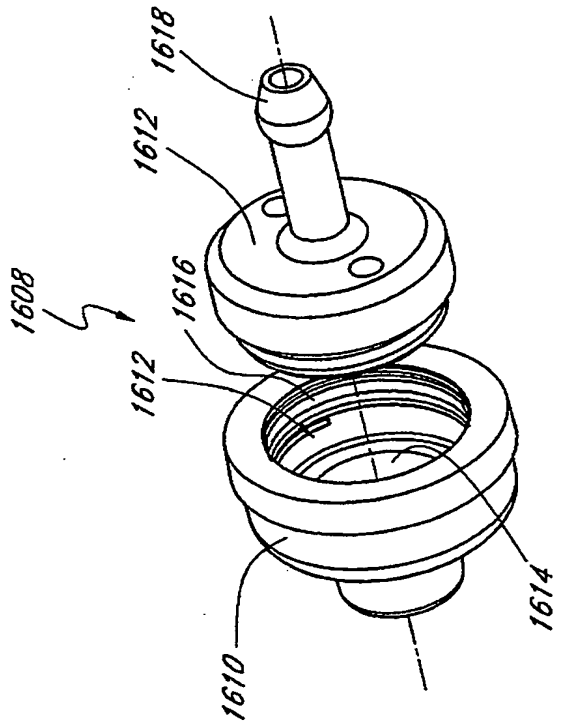


FIG. 16B

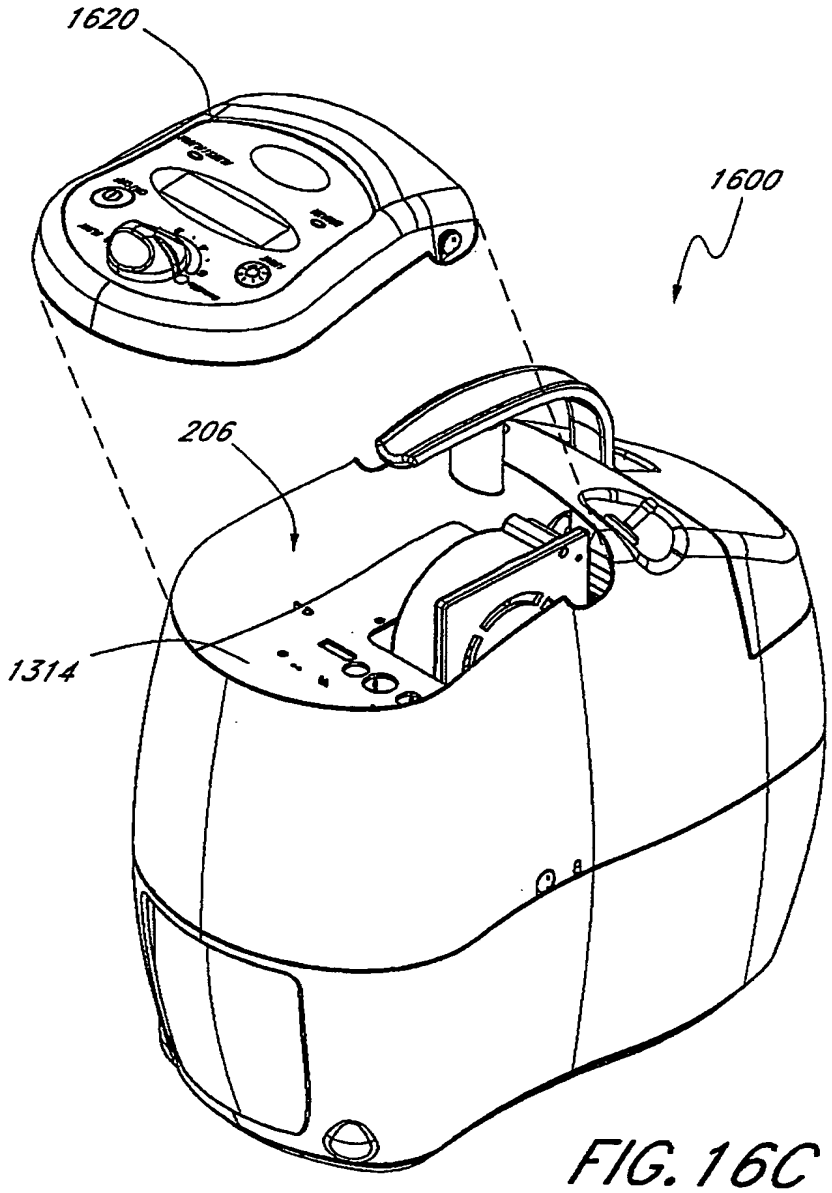


FIG. 16C

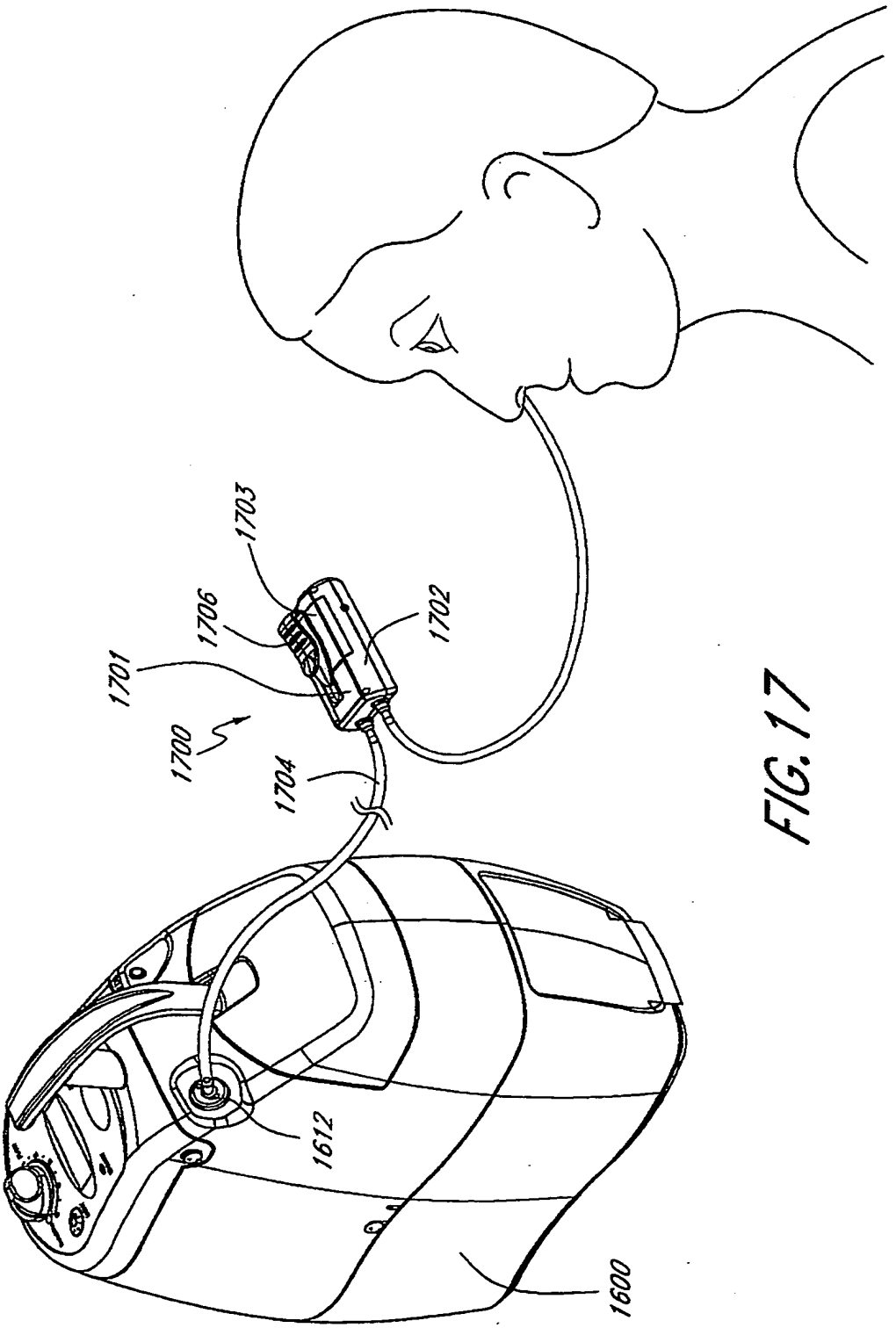


FIG. 17

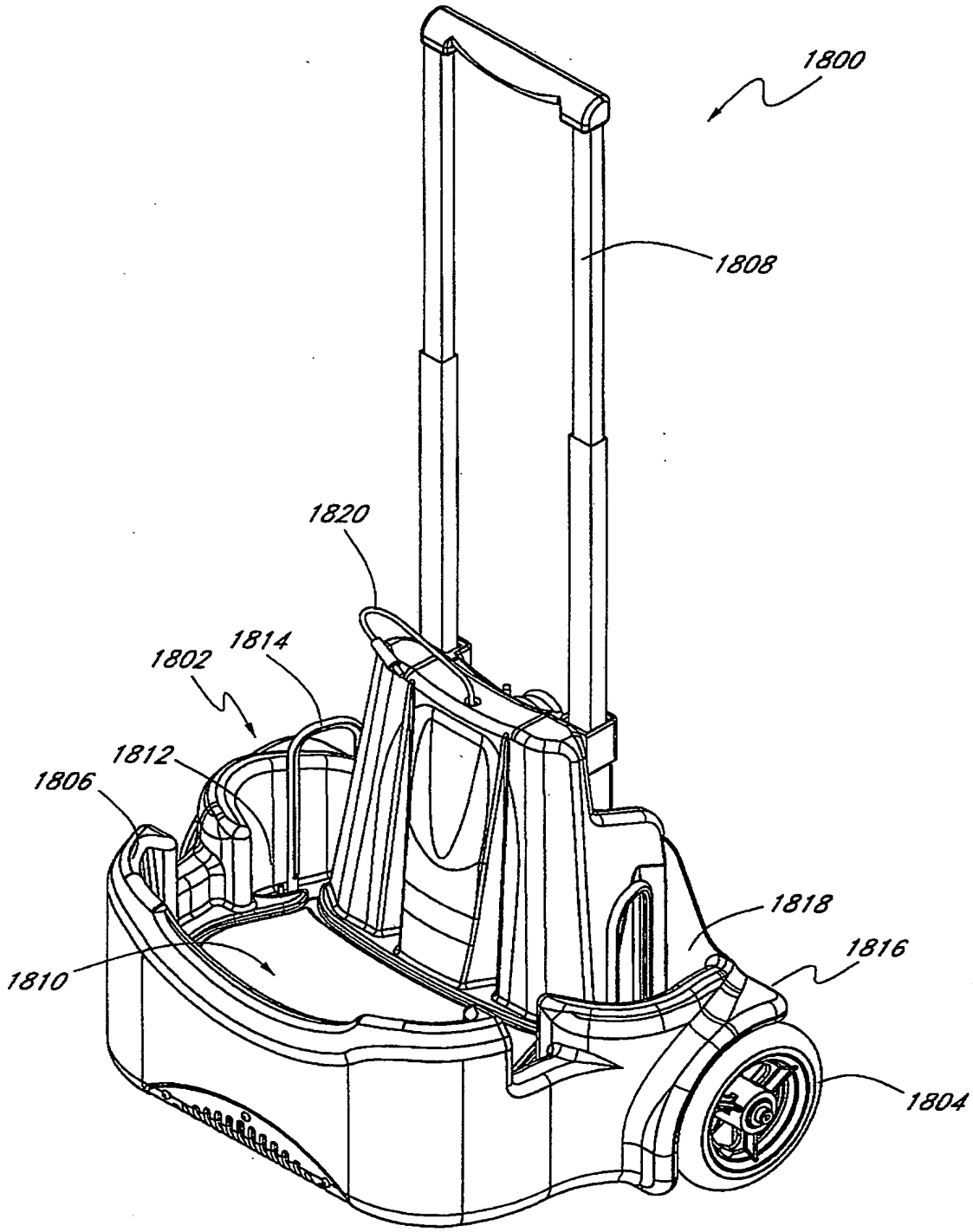


FIG. 18A

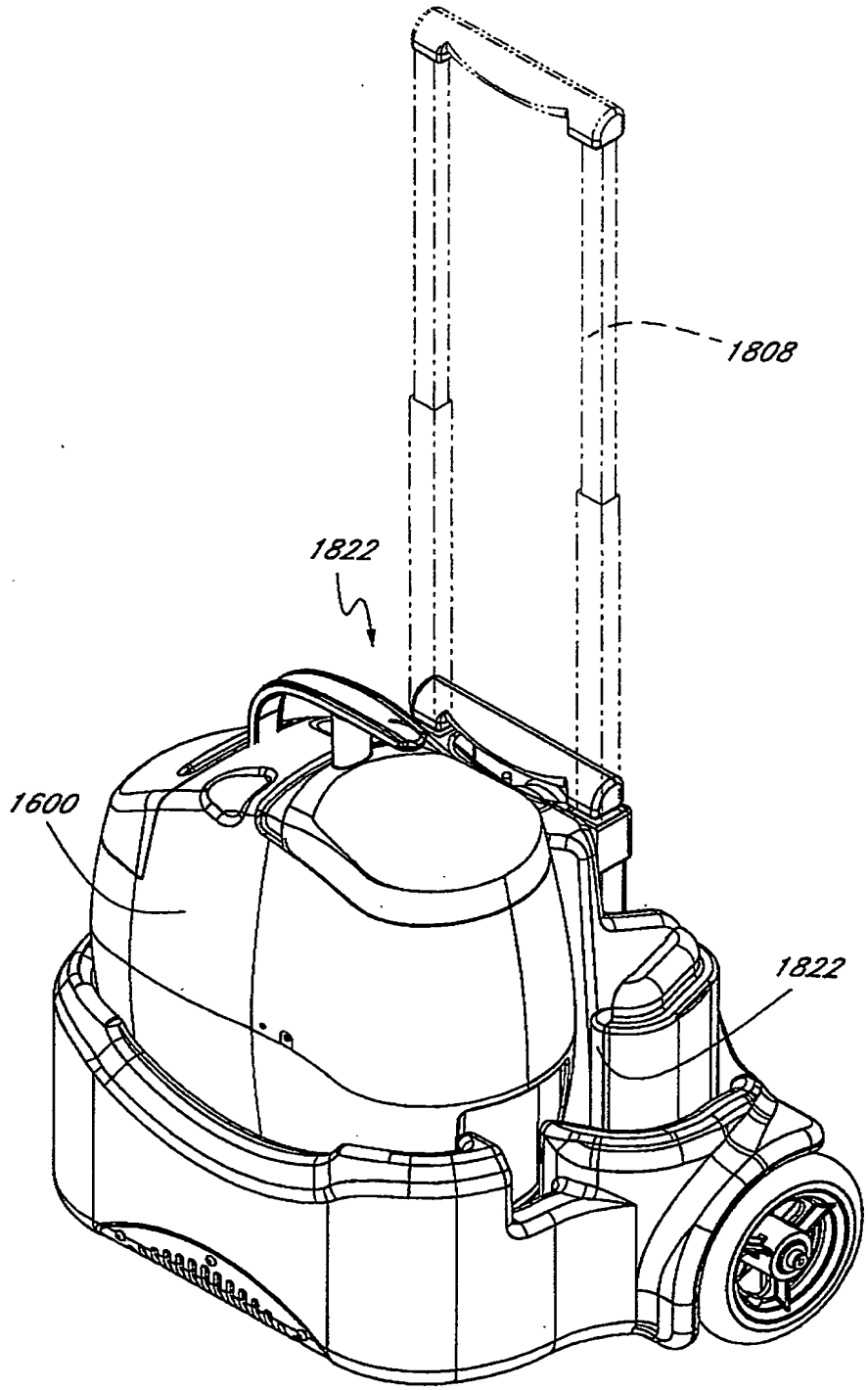


FIG. 18B